



ENERGY STAR for Industry
U.S. Environmental Protection Agency
1200 Pennsylvania Avenue, NW
Mail Code 6202A
Washington, DC 20460

PHILLIPS 66
2331 Citywest Blvd.
Houston, TX 77042

December 16, 2019

Dear ENERGY STAR for Industry,

As the corporate energy director for Phillips 66, I am writing to nominate the following plants for award of the 2018 ENERGY STAR:

Phillips 66 Billings Refinery
401 South 23rd Street
Billings, MT 59101

Phillips 66 Ferndale Refinery
3901 Unick Road - P.O. Box 8
Ferndale, WA 98248

San Francisco Refinery
1380 San Pablo Avenue
Rodeo, CA 94572

Sweeny Refinery
8189 Old FM 524 Road
Old Ocean, TX 77463

As documented by the attached Statement of Energy Performance, I affirm that the aforementioned plant meets the conditions necessary to qualify for the ENERGY STAR, including an Energy Performance Score in the top quartile of the most current version of the ENERGY STAR Energy Performance Indicator for this type of plant, or for petroleum refineries, scoring within the top quartile of the *Solomon-El*[™] scoring system.

I have personally examined and am familiar with the information contained in this Application. The information is based on reasonable inquiry and is, to the best of my knowledge, true, accurate, and complete. I have no reason to believe the plant would not meet all EPA program requirements for receiving the ENERGY STAR.

I am submitting this application within one year of the period ending date on the enclosed Statement of Energy Performance. I understand EPA reserves the right to request and review any records which support the data used to produce the Energy Performance Score for this plant. I also certify that I am maintaining a formal certification file on this plant in accordance with EPA's formal certification file requirements. Furthermore, I agree to associate the ENERGY STAR name and logo only with the aforementioned plants and to adhere to ENERGY STAR's Identity Guidelines.

Sincerely,

A handwritten signature in blue ink that reads "Stephen P. Hyde Jr.".

Steve Hyde
Phillips 66
Director of Energy and Relief Systems

ENERGY STAR for Industry
U.S. Environmental Protection Agency
1200 Pennsylvania Avenue, NW
Mail Code 6202A
Washington, DC 20460



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Attachments: Statement of Energy Performance, EPI Printout, Award Specification Sheet, PE Verification Checklist

The public reporting burden for this collection of information is estimated to range up to 10 minutes per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed form to this address.

EPA Form 5900-264



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Plant Award Specification Sheet

The data on this form is used for generating certification materials, which includes a certificate for each plant and a letter to the Corporate Energy Manager (CEM) and Chief Executive Officer (CEO). Complete this form with company and plant names and contact information as it should be referenced on certification materials. The letters to the CEO will reference the plants that received certification and will acknowledge the CEM for helping reduce energy use. If any other staff should be acknowledged, please write their names and titles at the end of the form. For multiple plants that fall under the same CEO and CEM input additional plants on page 2. For multiple plants with a different CEO or CEM use a separate form.

OMB Control No. 2060-0347

	Corporate Energy Manager	Organization's Chief Executive Officer
Name	Steve Hyde	Greg Garland
Title	Director of Energy and Relief Systems, Refining Business Improvement	Chairman, CEO and President
Company	Phillips 66	Phillips 66
Address 1	Phillips 66, 2331 City West Blvd	Phillips 66, 2331 City West Blvd
Address 2		
City	Houston	Houston
State	TX	TX
Zip code	77042	77042
Email	(b) (6)	(b) (6)
Phone	(b) (6)	(b) (6)
	Plant Owner (complete if different from CEO contact information)	
Company		
Address		
City, State, Zip		
Email		

Plant 1	
Plant name	Billings Refinery
Company name	Phillips 66
Address 1	401 South 23rd Street
Address 2	
City	Billings
State	MT
Zip code	59101
Decal type (see below)	Cyan and white <input checked="" type="checkbox"/> Etched <input type="checkbox"/>

ENERGY STAR Decals		NOTE: Unless specified otherwise, all recognition materials will be addressed and sent to the Corporate Energy Manager at the location specified above. The congratulatory letter for the CEO will be sent directly to the address provided for the CEO. Please specify any other information/requests for distribution of recognition materials in the space below. Please include recognition of the following plant energy coordinators and send recognition materials directly to plant energy coordinators: At Billings Refinery: Andrew Fonda, Process and Energy Engineer. At Ferndale Refinery: Lauren Turner, Business Performance Engineer. At San Francisco Refinery: Evan Roberts, Planning Engineer. At Sweeny Refinery: Mounika Arabandi, Process Engineer.
Cyan and White 	Etched 	



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EPA Form 5900-265



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Plant Award Specification Sheet

Plant 2

Plant name	Ferndale Refinery
Company name	Phillips 66
Address 1	3901 Unick Road -- P.O. Box 8
Address 2	
City	Ferndale
State	WA
Zip code	98248
Decal type	Cyan and white <input type="checkbox"/> Etched <input checked="" type="checkbox"/>

Plant 3

Plant name	Sweeny Refinery
Company name	Phillips 66
Address 1	8189 Old FM 524 Road
Address 2	
City	Old Ocean
State	TX
Zip code	77463
Decal type	Cyan and white <input checked="" type="checkbox"/> Etched <input type="checkbox"/>

Plant 4

Plant name	San Francisco Refinery
Company name	Phillips 66
Address 1	1380 San Pablo Avenue
Address 2	
City	Rodeo
State	CA
Zip code	94572
Decal type	Cyan and white <input checked="" type="checkbox"/> Etched <input type="checkbox"/>

Plant 5

Plant name	
Company name	
Address 1	
Address 2	
City	
State	
Zip code	
Decal type	Cyan and white <input type="checkbox"/> Etched <input type="checkbox"/>



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Steve P. Hyde
Director, Energy and Relief Systems
Refining Business Improvement



PHILLIPS 66
2331 City West Blvd.
Houston, TX 77042

(b) (6)

Statement of Energy Performance

Refinery Energy Efficiency
Performance Assessment
EPA ENERGY STAR® Program
San Francisco Refinery

December 13th, 2019

To Whom It May Concern:

Solomon Associates (Solomon) certifies that the Phillips 66 San Francisco Refinery has submitted to Solomon the energy consumption and process data required for the calculation of the refinery's Energy Intensity Index (Solomon-EII™) for operating year 2018. Solomon further certifies that the refinery's calculated Solomon-EII™ for operating year 2018 falls within the top 25 percent of refineries of similar crude capacity in the United States.

The energy consumption and process data submitted to Solomon have been verified by the under-signed Professional Engineer as being consistent with official refinery accounting documents and reports for the Phillips 66 San Francisco Refinery and accurately reflects any allocations or adjustments stipulated per Solomon's energy data reporting instructions.

Vice President of Refining Studies
Solomon Associates—Eric Hutchins

December 16, 2019

Date

Professional Engineer

License No. 53156

State Issuing License: Washington

December 13th, 2019

Date



Exp. 3/28/2020



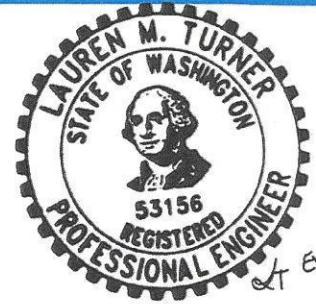
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Professional Engineer Verification Checklist

Plant: Phillips 66 San Francisco Refinery

Date: 12/13/2020

PE: Lauren Turner



Review location: Corporate Office ☐ Site Visit ☐ Other ☒

If other is checked, please describe how the PE confirmed that the plant met the eligibility requirements for certification and the authenticity and completion of the data used in the EPI.

Reviewed all data via files sent electronically. Same data that would have been reviewed on a site visit.

Plant Physical Characteristics and Eligibility

• The plant has established a formal certification file.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
• Where? <i>Refining Excellence, Knowledge Sharing, Energy Best Practices, Energy Star</i>	
• The plant's activities conform to the eligibility description in the EPI Instructions.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
• These plant activities are described in the certification file.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
• Relevant calculations of plant activities (e.g., space requirements) meet specified minimums in the EPI Instructions.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
• These plant calculations supporting eligibility are documented in the certification file.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Plant Operating Characteristics

• All data are confirmed to belong to the plant named in the EPI and plant certification documents.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
• All data are confirmed to match the same 12-month time period specified on the Statement of Energy Performance.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
• The plant's data is current (defined as within one year of the Period Ending Date on the Statement of Energy Performance).	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
• All original source data (e.g., production records) has been reviewed to assure all data were correctly transcribed into a spreadsheet, database, etc.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
• If original source data are not available for review: Internal verification procedures have been verified by PE and are applied to any company databases used for applicable data.	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
• All calculations made using the original source data have been reviewed to assure accuracy, correct conversion of units, and use of generally accepted and uniformly applied conversion factors.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
• Annual totals resulting from all calculations match the values entered into the EPI.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
• Annual totals resulting from all calculations match the units specified in the EPI.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
• Inputs or calculations for other required plant physical characteristics (e.g., square footage, kilns) are consistent with source documents provided in the certification file.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
• All source data, calculations, and assumptions have been documented in the formal certification file. Note that referral to a company database is not adequate; the file includes a static record of data drawn from the database on the date of EPI completion (i.e., the date the EPI score and Statement of Energy Performance were produced).	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
• All production metrics (e.g., quantities, capacities, labor hours) follow the procedure specified in the EPI instructions.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
• Source data, calculations, and documentation for all other data types (e.g. HDD/CDD) have been reviewed and documented in the formal certification file.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>
• For cement plants, all energy data was entered using High Heating Value.	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
• For cement plants, quarry energy data has been included.	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>



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Professional Engineer Verification Checklist

Energy Data

• All data confirmed to belong to the plant are named in the EPI and plant certification documents.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
• All data confirmed to match the same 12-month time period are specified on the Statement of Energy Performance.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
• The plant's data are current (defined as within 6 months of the Period Ending Date on the Statement of Energy Performance).	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
• If not, why?	
• All original source data (e.g., utility invoices) have been reviewed to assure all data were correctly transcribed into a spreadsheet, database, etc.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
• If original source data are not available for review: Internal verification procedures have been verified by PE and are applied to any company databases used for applicable data.	Yes <input type="checkbox"/> No <input type="checkbox"/> NA <input checked="" type="checkbox"/>
• All calculations made using the original source data have been reviewed to assure accuracy, correct conversion of units, and use of generally accepted and uniformly applied conversion factors.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
• Annual totals resulting from all calculations match the values entered into the EPI.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
• All source data, calculations, and assumptions have been documented in the formal certification file. Note that referral to a company database is not adequate; the file must include a static record of data drawn from the database on the date of EPI completion (i.e., the date the EPI score and Statement of Energy Performance were produced).	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
• Annual totals resulting from all calculations match the units specified in the EPI.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
• All energy sources used at the plant are included in the EPI.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
• All energy sources follow the energy accounting procedure specified in the EPI instructions.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
• Calculations for energy transfers (purchased steam, compressed air) have been reviewed for accuracy.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA <input type="checkbox"/>

ENERGY STAR Energy Performance Score

• All the required data have been entered into the EPI.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
• The data have been properly entered into the EPI.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
• The plant's EPI score is 75 or higher.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

PE Verification

• The PE review of the plant has been documented (e.g., site visit vs. corporate office, date, personnel met with, findings/corrections/recommendations from the review).	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
• The PE completed the Verification Checklist for submission to EPA, and added the original document to the formal certification file.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
• The PE signed, stamped – indicating if embossed, and provided the required license information on the Statement of Energy Performance for submission to EPA, and added the original document to the formal certification file.	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

Please note any company personnel involved in review: Lauren Turner - Business Performance Engineer
Evan Roberts - Planning Engineer, Tim Andreatta - Process Engineer

Please comment on any answers marked no and note any findings, corrections, or recommendations from the review:

Minor findings were found and reviewed. The updates did not change the EII for San Francisco Refinery. EPI in all cases is interpreted as data submissions to Solomon for calculation of EII. EPI score of 75 or higher is interpreted to be equivalent to an EII in the top 25% of similar sized refineries. Final certification RUC was created & populated, and contains data received by Solomon and Solomon EII results.

PE Signature: Lauren Turner